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**From : Winston Hsu, Registration No. 41,526**

**Serial No.: 10/707,966**

**Attorney Docket No.: MTKP0034USA**

**Subject: Information Disclosure Statement (IDS)**

**Total Pages: 49 pages (including cover page)**

**Winston Hsu 2005/04/06**

**MTKP0034USA0\_D1\_2**

PTO/SB/97 (09-04)

Approved for use through 07/31/2006. OMB 0651-0031

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Application No: 10/707,966

(1) Transmittal Form

1 PAGE

(2) Fee Transmittal

1 PAGE

(3) Information Disclosure Statement

45 PAGES

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|   |                      |                        |             |
|---|----------------------|------------------------|-------------|
| <b>TRANSMITTAL FORM</b><br><br>(to be used for all correspondence after initial filing) | Application Number   | 10/707,966             |             |
|   | Filing Date          | 01/28/2004             |             |
|   | First Named Inventor | Shou- Tsung Wang       |             |
|   | Art Unit             | 2685                   |             |
|   | Examiner Name        | Urban, Edward F        |             |
| Total Number of Pages in This Submission  | 47                   | Attorney Docket Number | MTKP0034USA |

| ENCLOSURES (Check all that apply)   |   |   |
|---|---|---|
| <input checked="" type="checkbox"/> Fee Transmittal Form                  | <input type="checkbox"/> Drawing(s)                                       | <input type="checkbox"/> After Allowance Communication to TC                            |
| <input type="checkbox"/> Fee Attached                                     | <input type="checkbox"/> Licensing-related Papers                         | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences     |
| <input type="checkbox"/> Amendment/Reply                                  | <input type="checkbox"/> Petition   | <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) |
| <input type="checkbox"/> After Final                                      | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Proprietary Information  |
| <input type="checkbox"/> Affidavits/declaration(s)                        | <input type="checkbox"/> Power of Attorney, Revocation                    | <input type="checkbox"/> Status Letter  |
| <input type="checkbox"/> Extension of Time Request                        | <input type="checkbox"/> Change of Correspondence Address                 | <input type="checkbox"/> Other Enclosure(s) (please identify below):                    |
| <input type="checkbox"/> Express Abandonment Request                      | <input type="checkbox"/> Terminal Disclaimer                              |   |
| <input checked="" type="checkbox"/> Information Disclosure Statement      | <input type="checkbox"/> Request for Refund                               |   |
| <input type="checkbox"/> Certified Copy of Priority Document(s)           | <input type="checkbox"/> CD, Number of CD(s) _____                        |   |
| <input type="checkbox"/> Reply to Missing Parts/Incomplete Application    | <input type="checkbox"/> Landscape Table on CD                            |   |
| <input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53 | <b>Remarks</b>  |   |

## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

|              |   |          |        |
|--------------|---|----------|--------|
| Firm Name    | North America Intellectual Property Corporation |          |        |
| Signature    | <i>Winston Hsu</i>                              |          |        |
| Printed name | Winston Hsu                                     |          |        |
| Date         | 04/06/2005                                      | Reg. No. | 41,526 |

## CERTIFICATE OF TRANSMISSION/MAILING

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|---|--|------|--|
| I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below: |  |      |  |
| Signature   |  |      |  |
| Typed or printed name   |  | Date |  |

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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|---|--|--------------------------|------------------|
| Effective on 12/08/2004.<br>Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).<br><b>FEE TRANSMITTAL</b><br><b>For FY 2005</b> |  | <b>Complete if Known</b> |                  |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27  |  | Application Number       | 10/707,966       |
|   |  | Filing Date              | 01/28/2004       |
|   |  | First Named Inventor     | Shou- Tsung Wang |
|   |  | Examiner Name            | Urban, Edward F  |
|   |  | Art Unit                 | 2685             |
| <b>TOTAL AMOUNT OF PAYMENT</b> (\$) 0.00  |  | Attorney Docket No.      | MTKP0034USA      |

**METHOD OF PAYMENT** (check all that apply)

☐ Check 
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For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

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 ☒ Credit any overpayments

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**FEE CALCULATION**

**1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

| Application Type | FILING FEES |                       | SEARCH FEES |                       | EXAMINATION FEES |                       | Fees Paid (\$) |
|------------------|-------------|-----------------------|-------------|-----------------------|------------------|-----------------------|----------------|
|                  | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)    | Small Entity Fee (\$) | Fee (\$)         | Small Entity Fee (\$) |                |
| Utility          | 300         | 150                   | 500         | 250                   | 200              | 100                   |                |
| Design           | 200         | 100                   | 100         | 50                    | 130              | 65                    |                |
| Plant            | 200         | 100                   | 300         | 150                   | 160              | 80                    |                |
| Reissue          | 300         | 150                   | 500         | 250                   | 600              | 300                   |                |
| Provisional      | 200         | 100                   | 0           | 0                     | 0                | 0                     |                |

**2. EXCESS CLAIM FEES**

| Fee Description   | Fee (\$) | Small Entity Fee (\$) |
|---|----------|-----------------------|
| Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent            | 50       | 25                    |
| Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent | 200      | 100                   |
| Multiple dependent claims   | 360      | 180                   |

**Total Claims** - 20 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ **Fee Paid (\$)**  
 HP = highest number of total claims paid for, if greater than 20

**Indep. Claims** - 3 or HP = \_\_\_\_\_ x \_\_\_\_\_ = \_\_\_\_\_ **Fee Paid (\$)**  
 HP = highest number of independent claims paid for, if greater than 3

**Multiple Dependent Claims**  
 Fee (\$) \_\_\_\_\_ Fee Paid (\$) \_\_\_\_\_

**3. APPLICATION SIZE FEE**

If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

| Total Sheets        | Extra Sheets       | Number of each additional 50 or fraction thereof | Fee (\$)              | Fee Paid (\$) |
|---------------------|--------------------|--|-----------------------|---------------|
| _____ - 100 = _____ | _____ / 50 = _____ | _____ (round up to a whole number)               | _____ x _____ = _____ |               |

**4. OTHER FEE(S)**

|   | Fees Paid (\$) |
|---|----------------|
| Non-English Specification, \$130 fee (no small entity discount) |                |
| Other: submission of Information Disclosure Statement           | 0.00           |

|                     |                    |   |
|---------------------|--------------------|---|
| <b>SUBMITTED BY</b> |                    |   |
| Signature           | <u>Winston Hsu</u> | Registration No. (Attorney/Agent) <u>41,526</u> |
| Name (Print/Type)   | <u>Winston Hsu</u> | Telephone <u>302-729-1562</u>                   |
|                     |                    | Date <u>04/06/2005</u>                          |

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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

|       |   |    |   |
|-------|---|----|---|
| Sheet | 1 | of | 1 |
|-------|---|----|---|

**Complete If Known**

|                        |                  |
|------------------------|------------------|
| Application Number     | 10/707,966       |
| Filing Date            | 01/28/2004       |
| First Named Inventor   | Shou- Tsung Wang |
| Art Unit               | 2685             |
| Examiner Name          | Urban,Edward F   |
| Attorney Docket Number | MTKP0034USA      |

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|                       |  |                    |  |
|-----------------------|--|--------------------|--|
| Examiner<br>Signature |  | Date<br>Considered |  |
|-----------------------|--|--------------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Shou-Tsung Wang et al.  
5 Appl. No.: 10/707,966 Filing Date: 01/28/2004  
Examiner: Urban, Edward F Art Unit: 2685  
Docket No.: MTKP0034USA

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Title: ANALOG DEMODULATOR IN A LOW-IF RECEIVER  
10

To: Commissioner for Patents  
P.O. BOX 1450  
Alexandria, VA 22313-1450

15 Subject: Information disclosure statement under 37  
CFR §1.56

Dear Sir,  
20

This is an Information Disclosure Statement in  
accordance with the duty to disclose information  
material to patentability under 37 CFR §1.56. The  
applicant wishes to make of record the document(s)  
25 listed on the accompanying form PTO/SB/08.

Since this IDS is filed before the mailing date of the  
first Office action, consideration of the information  
disclosure statement is hereby requested according to 37 CFR  
30 §1.97(e).

That each item contained in the IDS was cited in an  
office communication mailed on January 14, 2005 for

the counterpart German patent application number 102004004610.7, which are no more than three months prior to the filing of the information disclosure statement.

5       According to the requirement set forth in 37 CFR §1.98, the applicant is submitting a copy of the cited German patent DE 69701635 T2 (published November 16, 2000). In accordance with MPEP 609 III A(2), an English-language equivalent application may be  
10       submitted to fulfill the requirement for a concise explanation of relevance. Accordingly, the English-language equivalent US patent 5,802,463 of the German patent DE 69701635 T2 is hereby presented to fulfill the 37 CFR §1.98(a)(3) requirement.

15       It is respectfully requested that the examiner can consider the document(s) listed on the accompanying form PTO/SB/08 and that it be made of record in the application. The applicants sincerely hope that the examiner initials the  
20       cited reference(s) on the form and that a copy of the initialed form be sent to the applicants with the next communication from the examiner.

25

30

Respectfully submitted,

Winston Hsu

Date: April 6, 2005

5 Winston Hsu, Patent Agent No. 41,526

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15